

LUD 5615 (09905230) - NDH

IN THE CLAIMS

Claims 1-79 (Canceled).

Claim 80. (Currently amended) An isolated nucleic acid molecule, the complimentary complementary sequence of which hybridizes, under highly stringent conditions (aqueous buffer, 65°C) to the nucleotide sequences set forth in SEQ ID NO: 15, wherein said nucleic acid molecule encodes a cancer associated antigen, wherein said cancer associated antigen is a protein which, when expressed by a human, elicits a humoral response by said human against said protein.

Claim 81. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO: 15.

Claim 82. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO: 8.

Claim 83. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO: 4.

Claim 84. (Previously presented) An isolated nucleic acid molecule comprising a nucleotide sequence which encodes a protein comprising the amino acid sequence of SEQ ID NO: 16.

Claim 85. (Previously presented) Expression vector comprising the isolated nucleic acid molecule of claim 80, operably linked to a promoter.

Claim 86. (Previously presented) Recombinant cell, transformed or transfected with the isolated nucleic acid molecule of claim 81.

LUD 5615 (09905230) - NDH

Claim 87. (Previously presented) Recombinant cell, transformed or transfected with the isolated nucleic acid molecule of claim 80.

Claim 88. (Previously presented) The recombinant cell of claim 86, wherein said recombinant cell is further transfected with a nucleic acid molecule encoding a cytokine, or an MHC molecule.

Claim 89. (Previously presented) The recombinant cell of claim 87, wherein said recombinant cell is further transfected with a nucleic acid molecule which encodes a cytokine, or an MHC molecule.

Claim 90. (Previously presented) The recombinant cell of claim 88, wherein said cytokine is an interleukin.

Claim 91. (Previously presented) The recombinant cell of claim 89, wherein said cytokine is an interleukin.

Claim 92. (Previously presented) The recombinant cell of claim 90, wherein said interleukin is IL-2, IL-4, or IL-12.

Claim 93. (Previously presented) The recombinant cell of claim 91, wherein said interleukin is IL-2, IL-4, or IL-12.

Claim 94. (Previously presented) The recombinant cell of claim 86, rendered non-proliferative.

Claim 95. (Previously presented) The recombinant cell of claim 87, rendered non-proliferative.

Claim 96. (Previously presented) The expression vector of claim 85, comprising a mutated or attenuated virus.

LUD 5615 (09905230) - NDH

Claim 97. (Previously presented) The expression vector of claim 96, wherein said virus is vaccinia virus or adenovirus.